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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,072	05/10/2005	Andreas Van Eikeren	H01.2-11733-US01	8652
VIDAS, ARRETT & STEINKRAUS, P.A. SUITE 400, 6640 SHADY OAK ROAD EDEN PRAIRIE, MN 55344			EXAMINER	
			LEWIS, RALPH A	
EDEN PKAIKI	E, MIN 33344		ART UNIT	PAPER NUMBER
			3732	
			MAIL DATE	DELIVERY MODE
			03/17/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/517,072	EIKEREN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ralph A. Lewis	3732	
The MAILING DATE of this commur Period for Reply	nication appears on the cover she	et with the correspondence add	ress
A SHORTENED STATUTORY PERIOD F WHICHEVER IS LONGER, FROM THE N - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this come - If NO period for reply is specified above, the maximum s - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF THIS COMMI is of 37 CFR 1.136(a). In no event, however, m munication. tatutory period will apply and will expire SIX (6) of will, by statute, cause the application to become	UNICATION. ay a reply be timely filed MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) file	2b) This action is non-final. for allowance except for formal i	· •	nerits is
Disposition of Claims			
4)	re withdrawn from consideration		
Application Papers			
9) The specification is objected to by the specification is objected to by the specific to the	: a) accepted or b) objected or b) to objected or b) to the drawing(s) be held in abg the correction is required if the draw	eyance. See 37 CFR 1.85(a). wing(s) is objected to. See 37 CFF	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim a) All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies	documents have been received documents have been received of the priority documents have bonal Bureau (PCT Rule 17.2(a)).	in Application No een received in this National S	tage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (I 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	PTO-948) Paper 5) Notice	iew Summary (PTO-413) No(s)/Mail Date e of Informal Patent Application	

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Rejections based on Prior Art

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 2, 3, 9-12 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Dragan (US 5,676,543).

Dragan discloses a method for isolating tooth material comprised of providing an addition reaction silicone (A-silicone)(column 3, line 25), a condensation silicone (C-silicone)(column 3, line 24) and/or polyethers (column 3, line 23) 10 that is mixed from a base portion and a catalyst portion and then "placed about the lower teeth 12, 12' and gum 14 and allowed to set" (emphasis added - column 3 lines 55-56). After the material 10 is set (cross-links in a self-cure manner) it forms an "impression 20 [that] closely conforms to the shape of the teeth 12, 12' and gum 14" (emphasis added - column 4, lines 1-3). The material 10 is removed from the patient's mouth and "filled with a layer of flowable, syringeable or less viscous material 18" (column 4, lines 7-9) which maybe any of the silicone materials used for tray 10 (note column 4, lines 23-24). The flowable material 18 is placed "to flow around the teeth 12, 12' and gum 14" (emphasis added – column 4, line 30) where it is then allowed to set before removal. Material 18 and its use by Dragan, meet the "covering composition" limitations and it's

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broadly claimed method of use. The flowable material 18 is not applied to the isolated and exposed tooth material 12 at the right side of Figures 1, 2, 5 and 6 which is capable of being treated with a liquid dental treatment material. It is noted that the present claims specifically call only for a method of isolating tooth material to be treated <u>and not</u> a method of isolating <u>and</u> treating tooth material.

In regard to the limitation that the material is to adhere to the patient's gingival tissue, the examiner is of the position that the Dragan material adhers (at least partially) to a patient's gingival. If applicant's C-silicone is capable of adhering to the gingival, then so is the Dragan C-silicone; the laws of physics apply equally to applicant and the prior art. Applicant discloses, nor claims, any special ingredients in the prior art C-silicone (or A-silicone or polyethers) that make it capable of adhering to soft tissues that other such materials do not typically include.

In response to the present rejection applicant argued that Dragan "does not disclose to apply a composition to the gum <u>around</u> the tooth material to be treated and <u>not onto</u> the tooth material to be treated." The examiner disagrees; Dragan clearly illustrates teeth 12 to the right of Figures 1, 2, 5 and 6 that are left exposed and isolated from the teeth and gum tissue to which the Dragan composition has been applied. The exposed and isolated teeth 12 to the right in Figures 1, 2, 5 and 6 are capable of being treated with a liquid dental treatment means (such as a whitening agent). Applicant argues that the gum tissue immediately below teeth 12 in Dragan Figure 1 are not covered by the composition. The examiner agrees, but applicant only vaguely claims

covering the gingival "around" the tooth material to be treated. Applicant continues to construe the claims much more narrowly than the broad language of the claims require.

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Applicant continues with an argument that the Dragan reference fails to inherently perform the method claimed. The examiner has made no "inherency" argument; it is not asserted that the Dragan method inherently protects the ginigva from a liquid dental treatment means only that the Dragan method is capable of protecting at least a portion of the gingiva around teeth that are capable of being treated with a liquid. The present method claims do not require a liquid dental treatment step and there is no assertion that such a liquid dental treatment step is inherent in the Dragan reference. To the extent that applicant is arguing that the Dragan composition which covers gum tissue is incapable of protecting that gum tissue which it covers from a liquid dental treatment, the examiner simply disagrees. Any substance covering gum tissue would give at least some degree of protection to some vaguely claimed liquid dental treatment.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dragan (US 5,676,543).

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Adjusting the ingredients so that the setting times fall within the ranges claimed would have been obvious to one of ordinary skill in the art as a matter or routine in practicing the Dragan invention.

Claims 2, 3, 5-12 and 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jensen et al (US 6,305,936) in view of Futami et al, (US 4,778,832) Hare (US 5,661,222), Kamohara et al (US 6,291,546), Zech et al (US 6,677,393), Amstutz et al (US 4,559,013) and Kostner et al (US 4,204,324).

Jensen et al teach the application of a flowable material 28 to the gums of a patient which quickly cross links and isolates the teeth 14 which are to be treated from the gum tissue which is protected behind the applied composition. Jensen et al disclose that the barrier material 28 is a methacrylate composition mixed immediately prior to or during use and applied with a syringe 30 before it cures. While Jensen et al disclose methacrylates, rather than the claimed addition and condensation silicones, Jensen et al do make it clear that other materials having similar properties may be used to accomplish the method (note particularly column 7, lines 9-12).

A-silicones and C-silicones that are mixed in a liquid state prior and then cured by cross linking are well known and commonly used in the dental arts as impression materials for the teeth and gums as evidenced, for example by, Futami et al, Hare, Kamohara et al and Zech et al. It is further known in the art to use such easily shaped silicones to create a thin layer shield over selective teeth and gums as taught by Amstutz et al (column 5, lines 8-15) and Kostner et al (column 3, lines 3-16). To have

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merely substituted common dental A-silicones and C-silicones which are known in the art to make beneficial shields which cover a patient's teeth and/or gums as taught by Amstutz et al and Kostner et al for the methacrylate compositions disclosed by Jensen et al would have been obvious to one of ordinary skill in the art, particularly in view of the Jensen et al disclosure that other compositions are capable of performing the disclosed method.

In response to the present rejection applicant argues that curing of the Jensen et al methacrylate compositions give off more heat during the curing process than Asilicones and C-silicones when curing, that A-silicones and C-silicones are not the specific monomers mentioned by Jensen et al as alternative compositions and that Jensen et al discloses that a photocuring agent may used. The examiner agrees, Jensen et al do not disclose the claimed composition, otherwise the reference would anticipate the claims. What Jensen et al do teach is applying a flowable composition to a patient's gums which rapidly cures in order to protect those gums from substances (e.g. bleaching agents) used on the teeth. Merely, substituting other known common flowable dental compositions that are readily cured in the method disclosed by Jensen et al for the specific composition used by Jensen et al would have been obvious to one of ordinary skill in the art.

Action Made Final

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication should be directed to **Ralph Lewis** at telephone number **(571) 272-4712**. Fax (571) 273-8300. The examiner works a compressed work schedule and is unavailable every other Friday. The examiner's supervisor, Cris Rodriguez, can be reached at (571) 272-4964.

R.Lewis March 15, 2009 /Ralph A. Lewis/ Primary Examiner, Art Unit 3732